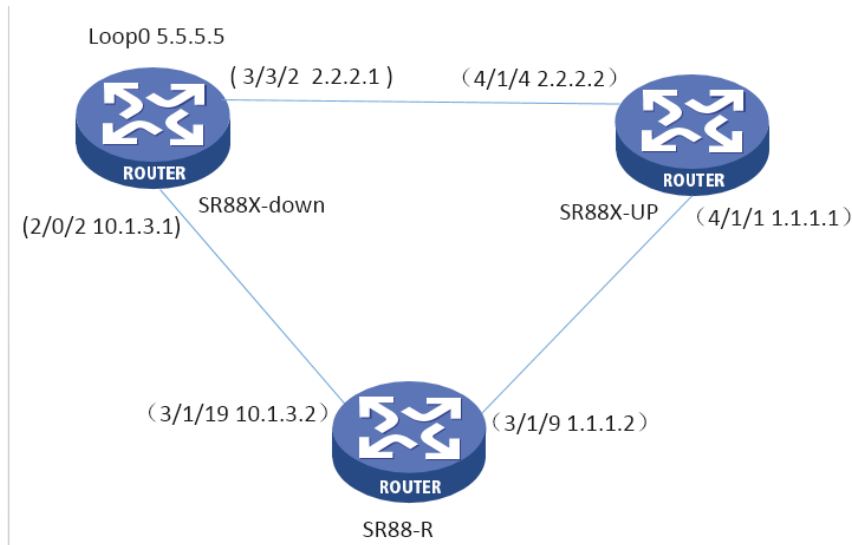


知 静态bfd联动track和NQA的典型配置

BFD NQA 静态路由 杨凌轩 2019-07-24 发表

组网及说明



配置步骤

```
[SR88X-down]track 1 bfd static abc
bfd static abc peer-ip 2.2.2.2 interface GigabitEthernet3/3/2 source-ip 2.2.2.1 discriminator local 4321
remote 1234
bfd min-transmit-interval 10
bfd min-receive-interval 10
bfd detect-multiplier 3
```

```
[SR88X-up] track 1 bfd static abc
[SR88X-up] bfd static abc peer-ip 2.2.2.1 interface GigabitEthernet4/1/4 source-ip 2.2.2.2 discriminat
or local 1234 remote 4321
bfd min-transmit-interval 10
bfd min-receive-interval 10
bfd detect-multiplier 3
```

```
[SR88X-up]display track all
Track ID: 1
State: Positive
Duration: 0 days 0 hours 5 minutes 56 seconds
Tracked object type: BFD static
Notification delay: Positive 0, Negative 0 (in seconds)
Tracked object:
BFD static session name: abc
```

```
[SR88X-up]display ip routing-table 5.5.5.5
Summary count : 1
Destination/Mask Proto Pre Cost NextHop Interface
5.5.5.5/32 Static 60 0 2.2.2.1 GE4/1/4
```

验证过程:

```
[SR88X-up-GigabitEthernet4/1/4]shut
[SR88X-up-GigabitEthernet4/1/4]%Jul 18 07:38:05:574 2019 SR88X-up BFD/5/BFD_CHANGE_FSM
: -MDC=1; Sess[2.2.2.2/2.2.2.1, LD/RD:1234/4321, Interface:GE4/1/4, SessType:Ctrl,
LinkType:INET], Ver:1, Sta: UP->DOWN, Diag: 1 (Control Detection Time Expired)
```

```
[SR88X-up]display track all
Track ID: 1
State: Negative
Duration: 0 days 0 hours 0 minutes 18 seconds
```

Tracked object type: BFD static
Notification delay: Positive 0, Negative 0 (in seconds)
Tracked object:
BFD static session name: abc

[SR88X-up]display ip routing-table 5.5.5.5

Summary count : 1

Destination/Mask	Proto	Pre Cost	NextHop	Interface
5.5.5.5/32	Static	80 0	1.1.1.2	GE4/1/1

[SR88X-up]ping 5.5.5.5

Ping 5.5.5.5 (5.5.5.5): 56 data bytes, press CTRL_C to break

56 bytes from 5.5.5.5: icmp_seq=0 ttl=254 time=9.498 ms

56 bytes from 5.5.5.5: icmp_seq=1 ttl=254 time=2.469 ms

56 bytes from 5.5.5.5: icmp_seq=2 ttl=254 time=2.172 ms

56 bytes from 5.5.5.5: icmp_seq=3 ttl=254 time=2.086 ms

56 bytes from 5.5.5.5: icmp_seq=4 ttl=254 time=2.180 ms

[SR88X-up]int g 4/1/4

[SR88X-up-GigabitEthernet4/1/4]undo shut

%Jul 18 07:44:41:600 2019 SR88X-up BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[2.2.2.2/2.2.2.1, L D/RD:1234/4321, Interface:GE4/1/4, SessType:Ctrl, LinkType:INET], Ver:1, Sta: DOWN->UP, Diag: 0 (No Diagnostic)

[SR88X-up]display ip routing-table 5.5.5.5

Destination/Mask	Proto	Pre Cost	NextHop	Interface
5.5.5.5/32	Static	60 0	2.2.2.1	GE4/1/4

[SR88X-up]display track all

Track ID: 1

State: Positive

Duration: 0 days 0 hours 0 minutes 25 seconds

Tracked object type: BFD static

Notification delay: Positive 0, Negative 0 (in seconds)

Tracked object:

BFD static session name: abc

[SR88X-up]ping 5.5.5.5

Ping 5.5.5.5 (5.5.5.5): 56 data bytes, press CTRL_C to break

56 bytes from 5.5.5.5: icmp_seq=0 ttl=255 time=1.012 ms

56 bytes from 5.5.5.5: icmp_seq=1 ttl=255 time=0.646 ms

56 bytes from 5.5.5.5: icmp_seq=2 ttl=255 time=0.621 ms

56 bytes from 5.5.5.5: icmp_seq=3 ttl=255 time=1.021 ms

56 bytes from 5.5.5.5: icmp_seq=4 ttl=255 time=0.656 ms

配置关键点

- 1.如果对端创建了静态BFD会话，那么本端必须创建静态BFD会话。
- 2.首次创建静态BFD会话时，必须指定静态BFD会话的对端IPv4或IPv6地址。系统仅检查IP地址的形式，不检查其正确性。指定错误的对端IP地址或源IP地址均会导致静态BFD会话无法建立。
- 3.不同的静态BFD会话的本地标识符不能相同。